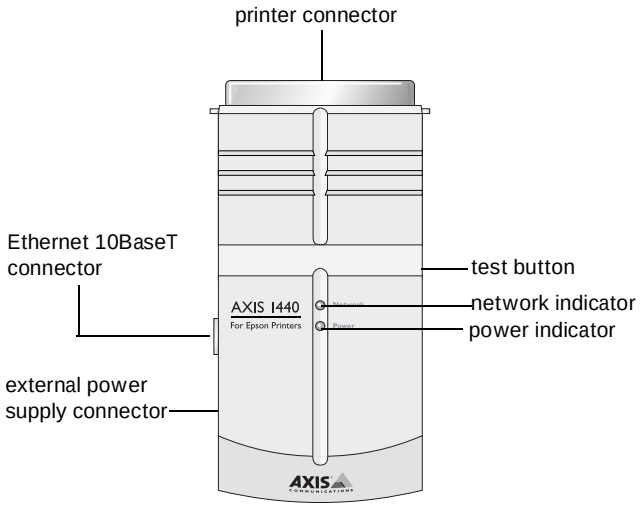

Technical Specifications

Supported Systems

Novell® NetWare™: Versions 3.11, 3.12, 4.10 and above, supporting both NDS and Bindery Emulation. At least 16 bindery files servers and 96 print queues can be served. User messages also supported. Print methods include RPRINTER/NPRINTER, PSERVER.

IBM® LAN Server™: LAN Server 1.3 and above, running under OS/2 version 1.3 and above, including OS/2 Warp, OS/2 Warp Connect.

Microsoft® Windows: Windows NT version 4.0 and above, Windows 95, Windows 98, Windows 3.1, and Windows for Workgroups.

LANtastic®: Windows for Workgroups, Windows 95 and Windows 98 clients using LANtastic 7.0 and above.

Apple® EtherTalk™: Print method: AppleTalk™ Phase 2.

UNIX: Any UNIX system that supports LPR

WWW: Netscape Navigator 3.0, Microsoft Internet Explorer 3.0, or compatible Web browsers.

Supported Protocols

NetWare: IPX, SAP, RIP, SPX, NCP (extended with NDS) and LIP.

Windows/OS/2®: NetBIOS/NetBEUI, TCP/IP, WINS/NBT.

TCP/IP: LPD, FTP, BOOTP, DHCP, ARP, RARP, ICMP, IP, TCP, UDP, HTTP, TFTP, SNMP, SLP.

Apple EtherTalk: AARP, ATP, DDP, NBP, PAP, RTMP, ZIP.

Supported Printers

EPSON Stylus® COLOR 740, EPSON Stylus COLOR 850, EPSON Stylus Photo EX, EPSON Stylus Photo 700

Mechanical

Hardware: 32 bit RISC controller, 1 MB flash memory, 256 Kb RAM

Attachments: RJ-45 connector 10BaseT (Twisted Pair) Ethernet

Parallel Port: IEEE 1284

Dimensions: 1.1 inches (H) × 2.2 inches (W) × 4.7 inches (D) (2.7 cm × 5.6 cm × 11.8 cm)

Weight: 0.26 lb (0.12 Kg)

Electrical

Power Consumption: Maximum 170 mA at 12 VDC (Type PS-A, 9 V, 300 mA). Power provided by external source.

Environmental

Temperature: 40 to 105 °F (5 to 40 °C)

Humidity: 10 to 95% non-condensing

Approvals

EMC: EN 55022/1994, EN 50082-1/1992, FCC Class A

Safety: EN 60950

Test Button and Indicator Lights

The following table describes how to use the test button.

Power Condition	Action	Result
ON	Push once.	Prints a test page to check the connection to the printer.
ON	Push twice.	Prints a parameter list showing the AXIS 1440 settings.
OFF (unplugged)	Hold down for more than 5 seconds.	Resets the AXIS 1440 parameter settings to factory default values.

The following table describes the indicator lights on the AXIS 1440:

Indicator	Print Server Status
Network	Flashes to indicate network activity.
Power	Normally ON when power is ON. If it flashes or does not light, there is a problem with the AXIS 1440 or its power supply.

Installation and Setup

Setup Overview

1. Set up your EPSON printer and install the printer software on each computer that will print over the network.
2. Attach the AXIS 1440 Print Server to your EPSON printer and connect it to the network.
3. Install the AXIS software on server workstations, if setting up a shared printer.
4. Install the AXIS software on client workstations, if printing in peer-to-peer mode.
5. Set up the AXIS 1440 for your network.
6. Configure each workstation's printer port to use the AXIS 1440 Print Server.

Network Configurations

See the following table to find your network configuration (operating system and protocol) and determine what to install.

Operating system	Network protocol/ configuration	What you need to install and configure
Windows 95/98/ NT	TCP/IP (LPR)	1. Install AXIS Print Monitor. 2. Configure your AXIS 1440 for TCP/IP. 3. Configure workstation printer ports to use the AXIS 1440.
	Novell NetWare	1. Install AXIS NetPilot. 2. Use AXIS NetPilot Installation Wizard to set up the AXIS 1440 for the network. 3. Configure workstation printer ports to use the AXIS 1440.
	NetBIOS/ NetBEUI	1. Install AXIS NetPilot and use the AXIS NetPilot Installation Wizard to set up the AXIS 1440 for the network.* 2. Install AXIS Print Monitor. 3. Configure workstation ports to use the AXIS 1440.
Windows 3.1**/ Windows for Worksgroups	peer-to-peer printing (NetBIOS/ NetBEUI or TCP/IP)	1. Install AXIS Print Utility on all workstations. 2. Configure workstation printer ports to use the AXIS 1440.
	client-server printing (NetBIOS/ NetBEUI or TCP/IP)	1. Install AXIS Print Utility on the server. 2. Set up the printer for sharing on the server. 3. Configure clients' ports to use the printer.
	Novell NetWare	1. Install AXIS NetPilot. 2. Use the AXIS NetPilot Installation Wizard to set up the AXIS 1440 for the network. 3. Configure workstation printer ports to use the AXIS 1440.
Macintosh	AppleTalk	Select your AT printer driver in the Chooser.
IBM OS/2	NetBIOS/ NetBEUI	1. Install AXIS Print Utility for OS/2. 2. Use AXIS Print Utility for OS/2 to set up your printer port. 3. Create a shared print queue.
UNIX (LPR only)	TCP/IP	1. Configure your AXIS 1440 for TCP/IP. 2. Copy the axinstall script to your hard disk. 3. Create an LPR print queue on your UNIX system. 4. Edit the LPR print queue description.

* You don't need to use the NetPilot Installation Wizard if you don't plan to change the print server name.

** Windows 3.1 workstations must be running LAN Manager Workstation client software to print to a network printer.

Hardware Installation

1. Locate and write down the serial number on the bottom of the AXIS 1440. You need this number during setup.
2. Turn the printer off and connect the AXIS 1440 to the printer's parallel port.
3. Connect the AXIS 1440 to the network using a twisted pair (10BaseT) cable.
4. Turn the printer on and connect the external power supply to the AXIS 1440. Check to make sure the network indicator is flashing.
5. Press the test button to print a test page. If the text page prints successfully, the AXIS 1440 is connected correctly to the printer.

Using AXIS NetPilot to Install the Print Server to the Network

1. After installing the software from the AXIS Utilities disks 1 and 2 to your server workstation, double-click the AXIS NetPilot icon to start the setup program. Units that have not been installed appear in the New Axis Units folder.
2. Select your AXIS 1440 Print Server from the New Axis Units folder and click the Install button on the toolbar. The Installation Wizard launches.
3. Follow the Installation Wizard to complete setup.

Setting Up Windows Workstations

When you set up workstations for peer-to-eer printing, the appropriate Axis utility (either AXIS Print Monitor or AXIS Print Utility for Windows) must be installed on *every workstation*. For client-server printing, you only need to install this utility on the *server workstation*.

To configure printer ports for Windows 95/98

1. Click Start, point to Settings, then click Printers.
2. Right-click your EPSON printer icon and click Properties.
3. Click the Details tab.
4. If your network supports NetBIOS/NetBEUI:

   ❏ Select the AXIS printer port from the ports list and click OK. The port name appears as <name>.LP1, where <name> is AX followed by the last six digits of the AXIS 1440 serial number (for example, AX560B35).

   If your network supports TCP/IP (LPR):

   a. Click Add Port...
   b. Click Other and select AXIS Port from the list. Click OK.
   c. Select your network protocol, LPR (TCP/IP), and click OK.
5. Click Port Settings. If you want error condition pop-up messages to be displayed, check the Show printer error condition pop-up messages box and specify the frequency at which messages are redisplayed in the Printer Error Condition Pop-up Timeout option. Click OK to close the dialog box.
6. Click OK to save your settings.

To configure printer ports for Windows NT:

1. Click Start, point to Settings, then click Printers.
2. Right-click your EPSON printer icon and click Properties.
3. Click the Ports tab, then click Add Port.
4. Select AXIS Port from the list, then click New Port...
5. Select your network protocol and click OK.
6. If your network supports NetBIOS/NetBEUI:

   ❏ Select the AXIS printer port from the ports list and click OK. The port name appears as <name>.LP1, where <name> is AX followed by the last six digits of the AXIS 1440 serial number (for example, AX560B35). Click Close.

   If your network supports TCP/IP (LPR):

   ❏ Enter the IP address or host name for your print server, then enter LPT1 as the printer name. Click OK, then click Close.
7. Click Configaure Port... If you want error condition pop-up messages to be displayed, check the Show printer error condition pop-up messages box and specify the frequency at which messages will redisplay in the Printer Error Condition Pop-up Timeout option. Click OK to close the dialog box.
8. Click OK to save your settings.

To configure printer ports for Windows 3.1 or Windows for Workgroups

1. Double-click the AXIS Utilities icon in Program Manager.
2. Double-click the AXIS Print Utility icon to start the program.
3. In the Port menu, click Add.
4. Select the AXIS printer port from the NPS Port list. The port name appears as <name>.LP1, where <name> is AX followed by the last six digits of the AXIS 1440 serial number (for example, AX100086.LP1).
5. Accept or change the Windows port name, then type any desired comment in the Description field. Make a note of the port name, which you'll need later.
6. Click OK to install the port.
7. Click Connect in the Port menu. The Printers dialog box appears.
8. Select your EPSON printer driver from the list of Installed Printers, then click Connect...
9. Select the AXIS printer port in the ports list. Click OK to close the Connect dialog box.
10. Click Close to save your settings and close the Printers dialog box.

Setting Up Macintosh Computers

1. Open the Chooser window and select your EPSON printer icon.
2. If your network has more than one zone, click on the zone you want. (If your network has no zones, this box doesn't appear.)

   The default AXIS 1440 printer name appears in the righthand frame. The printer name is shown as AXIS <nnnnnn>_<port>, where <nnnnnn> is the last six digits of the AXIS 1440 serial number, and <port> is LPT1 (for example, AXIS100086_LPT1).
3. Click the printer name. (By doing so, you'll see if the AXIS 1440 is correctly connected to the printer.)
4. Use the radio buttons to enable or disable background printing.
5. Close the Chooser

Repeat this procedure for each Macintosh on the network using the AXIS 1440 print server.

Configuration and Management

You cannot use EPSON Status Monitor 2 with the AXIS 1440 Print Server on Windows workstations.

Use the following tools to configure and manage the AXIS 1440:

Internal Web Pages

If your network supports TCP/IP, you can use any standard Web browser to access the Web pages stored in the print server's memory. Use these pages to do the following:

Configuration	Change configuration parameters, including node address and root password; enable and disable available networking protocols, or modify their operation.
Management	Reset parameters to factory default values; view basic information about the AXIS 1440, such as current software version, Ethernet address, serial number, base URL address, and enabled networking protocols.
Status	View detailed status of the connected printer ports (for example, number of bytes printed for each print job).
Acount	View an historical record of print job that includes the user, protocol, file size, elapsed time, and off-line time.
Printer	View detailed information about a printer connected to the AXIS 1440, including printer name, model, paper size and quantity, and ink levels.

AXIS NetPilot

AXIS NetPilot, the recommended configuration and management tool for NetWare networks, can also be used to configure other network protocols: NetBIOS/NetBEUI, TCP/IP, SNMP, and Apple EtherTalk. However, it must be installed on a Windows workstation connected to a NetWare or NetBIOS/NetBEUI network.

Configuration	Use the Properties window or the Parameter List Editor to change print server parameter values.
Networks	Use the Network Environment window to modify network settings for each network environment defined for your AXIS 1440.

Management	Create logical groups of print servers or printers to simplify printer monitoring; delete print server or printer groups, or individual print servers or printers from a group; view print server status; view detailed printer information.
Software	Update print server software, including flash memory.

FTP

Configuration	If your network supports TCP/IP, you can use FTP to access the config file stored in the print server's memory. Edit the file using your preferred text editor.

SNMP

If your network supports TCP/IP, you can use SNMP (Simple Network Management Protocol) for remote configuration and monitoring of the print server. The AXIS 1440 supports all relevant parts of MIB-II.

Novell Utilities

You can use NetWare Administrator or PCONSOLE to restart or view the status of the AXIS 1440.

Software Upgrades

Axis provides free software updates to the following:

- ❏ AXIS NetPilot
- ❏ AXIS Print Monitor
- ❏ AXIS Print Utility for Windows
- ❏ AXIS Print Utility for OS/2
- ❏ AXIS 1440 flash memory

You can obtain software updates from the EPSON Home Page or FTP site on the Internet.

You can also upgrade the AXIS 1440 flash memory using AXIS NetPilot or the FTP site stored in the print server's memory.

Related Documentation

AXIS14677	AXIS 1440 Network Print Server User's Manual AXIS 1440 Network Print Server for EPSON Printers Quick Installation Guide

Note:
Both manuals are ordered under the same part number from EPSON.